

### 3<sup>rd</sup> Harmonic Monday Meeting Minutes

**Date:** April 17, 2006

**Time:** 10:30 A.M.

**Place:** ICB Trailer 157 Conference Room

Attendees:

T. Arkan, L. Bellantoni, C. Boffo, H. Carter, C. Cooper, H. Edwards, M. Foley, E. Harms, T. Khabiboulline, D. Mitchell, D. Olis, A. Rowe

Minutes of the meeting

Minutes recorded by Dan.

Chemistry/Processing

- Allan reports next steps on cavity-2: 40micron inside etch, measure HOM body cap thickness, 40micron inside etch (opposite flow direction, measure HOM body cap thickness, field flatness measurement, light inside etch, final rinse, cavity performance test. This should take about 2.5wks.

HOM Body

- Allan reports HOM body under study (0.78mm thick cap) tests out OK. Received two full mechanical cycles +/- .5mm, approx. 180micron total etch, 5to6hrs of ultrasonic bath, bake (800C, 2hrs), leak check. 'Wrinkling' appearance from possible surface strains not as pronounced as after first inspection. Allan will document full study. Conclusions: design is OK, bake before tuning.
- Mike showed weld samples from Sciaky for repair of cavity1 HOM body. Samples look good but groove for attachment of tuning tool was consumed in weld. JLAB will send Mike their samples. Mike will send them to DESY along with test body from above.

HOM Couplers

- Elvin reports that that we should expect 2 or 3 HOM couplers this week from Ceramtec for FNAL evaluation: QC, leak check, cold cycle, leak check, RF measurement.
- Helen and Elvin to follow up with JLAB on prototype effort for JLAB style 3.9GHz HOM coupler.

Input Coupler

- Dan to meet with TD inspection and A0 personnel to develop coupler QA/QC procedures and inspection tooling.

Blade Tuner

- Don is giving drawing set a final review.

Other business

- General discussion about the need for Fermi to own an e-beam welder.